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MEMORANDUM

TO: Matt Mitguard, Site Assessment Manager
States, Tribes & Site Assessment Section, SFD-9-1

THROUGH: Rose Fong, ESAT Project Officer RF
Quality Assurance (QA) Office, PMD-3

FROM: Doug Lindelof, Data Review and QA Document Review Task Manager for JL.
Environmental Services Assistance Team (ESAT)

ESAT Contract No.: 68-W-01-028
Task Order: B01
Technical Direction No.: B0105187 Amendment 2

DATE: July 23, 2003

SUBJECT: Revision of Data Validation Report for Case 31519, SDG Y0SJ2 (May 19, 2003)

Attached are revised validity comments and Tier 3 Table 1A resulting from ESAT Region 9 review of the following analytical data:

SITE:	Continental Heat Treating
SITE ACCOUNT NO.:	09 ZZ LA00
CERCLIS ID NO.:	CAD095631719
CASE NO.:	31519
SDG NO.:	Y0SJ2
LABORATORY:	A4 Scientific, Inc. (A4)
ANALYSIS:	Volatiles
SAMPLES:	4 Water Samples
COLLECTION DATE:	March 19, 2003
REVIEWER:	Kendra DeSantolo, ESAT/Laboratory Data Consultants (LDC)

The attached validity comments and Table 1A reflect the analytical results expressed to significant figures according to the laboratory data package. The previous report showed results improperly rounded by the Computer-Aided Data Review and Evaluation (CADRE) automated review. Changes made to the validity comments are bolded. No other changes to the report were necessary. Please attach this report to your previous report, and any copies.

This report has been reviewed by the EPA Task Order Project Officer (TOPO) for the ESAT Contract, whose signature appears above.

If there are any questions, please contact Rose Fong (QA Program/EPA) at (415) 972-3812.

Attachment.

Data Validation Report - Revised

Case No.: 31519 SDG No.: Y0SJ2
Site: Continental Heat Treating
Laboratory: A4 Scientific, Inc. (A4)
Reviewer: Santiago Lee, ESAT/LDC
Date: July 23, 2003

Revised Validity Comments (Section III of May 19, 2003 Report)

B. The following results are qualified as nondetected and estimated due to method blank, storage blank, and equipment blank contamination, and are flagged "UJ" in Table 1A.

- Acetone and toluene in sample Y0SJ4
- Chloroform and bromoform in samples Y0SJ2 and Y0SJ5
- Methylene chloride in storage blank VHBLK01
- Chloromethane in samples Y0SJ2, Y0SJ3, and Y0SJ4

Chloromethane, methylene chloride, chloroform, and bromoform were found in method blanks and/or storage blank VHBLK01 (see Table 1A for concentrations). Acetone and toluene were found in equipment blank Y0SJ5 (see Table 1A for concentrations). Results for the samples listed above are considered nondetected and estimated (UJ) and the quantitation limits have been increased according to the blank qualification rules presented below.

No positive results are reported unless the concentration of the compound in the sample exceeds 10 times the amount in any associated blank for the common laboratory contaminants or 5 times the amount for other compounds. If the sample result is greater than the CRQL, the quantitation limit is raised to the sample result. If the sample result is less than the CRQL, the result is reported as nondetected at the CRQL.

Acetone results for samples Y0SJ2 (33 μg/L) and Y0SJ3 (27 μg/L) are not qualified since their concentrations exceed 10 times the amount detected in the associated equipment blank. Toluene results for samples Y0SJ2 (1.1 μg/L) and Y0SJ3 (1.7 μg/L) are not qualified since their concentrations exceed 5 times the amount detected in the associated equipment blank.

Although methylene chloride, 1,2,4-trichlorobenzene, and 1,2,3-trichlorobenzene were found in method blanks VBLK4N and VBLK4P (see Table 1A for concentrations), no data are qualified because these analytes were not detected in the associated samples.

A laboratory method blank is laboratory reagent water analyzed with all reagents, deuterated monitoring compounds, and internal standards and carried through the sample preparation and analytical procedures as the field samples. The laboratory method blank is used to determine the level of contamination introduced by the laboratory during analysis.

A storage blank is laboratory reagent water stored in a vial in the same area as the field samples. The storage blank is used to determine the level of contamination introduced by the laboratory during sample storage prior to analysis.

An equipment blank is clean water that has been collected as a sample using decontaminated sampling equipment. The intent of an equipment blank is to monitor for contamination introduced by the sampling activity, although any laboratory introduced contamination will also be present.

G. In the analysis of the field duplicate pair, the following outliers were obtained for the analytes listed below.

Analyte	Y0SJ2 (D1) Conc., µg/L	Y0SJ3 (D1) Conc., µg/L	RPD (<25%)
Bromomethane	0.45L	**0.50**U	N/A
1,1-Dichloroethene	26	18	36
cis-1,2-Dichloroethene	97	70	32
Cyclohexane	38	14	92
Methylcyclohexane	100	33	101
1,2-Dichloropropane	**4.7**	**0.50**U	N/A
Toluene	1.1	1.7	43
Tetrachloroethene	3.7	2.5	39
Xylenes (total)	1.4	2.1	40
Isopropylbenzene	22	15	38
1,1,2,2-Tetrachloroethane	1.0	**0.50**U	N/A

A relative percent difference (RPD) value is not calculated and is presented above as "N/A" when an analyte is detected in a field duplicate sample, but is nondetected (U) at the CRQL in the associated field duplicate sample. The effect of outliers on data quality is not known.

The analysis of field duplicate samples is a measure of both field and analytical precision. Imprecision in the results of the analysis of the field duplicate pair may be due to the sample matrix, method defects, or poor sampling or analytical technique.

ANALYTICAL RESULTS
Revised Tier 3 Table 1A

Case No. : 31519 SDG No. : Y0SJ2
Site : CONTINENTAL HEAT TREATING
Lab : A4 SCIENTIFIC INC.
Reviewer : Santiago Lee, ESAT/LDC
Revision Date : July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	CHT-GW-1			CHT-GW-3			CHT-GW-2			CHT-GW-4			Method Blank			Method Blank			Method Blank		
Sample ID :	Y0SJ2		D1	Y0SJ3		D1	Y0SJ4			Y0SJ5		EB	VBLK4N			VBLK4P			VBLK4U		
Collection Date :	03/19/2003			03/19/2003			03/19/2003			03/19/2003											
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**	**Result**	**Val**	**Com**
Dichlorodifluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	E
Chloromethane	0.50U	J	B	0.50U	J	B	0.50U	J	B	0.50U			0.50U			0.50U			0.50U	J	E
Vinyl Chloride	1.1			1.4			0.27L	J	A	0.50U			0.50U			0.50U			0.50U	J	E
Bromomethane	0.45L	J	AEG	0.50U	J	EG	0.50U	J	E	0.50U			0.50U			0.50U	J	E	0.50U		
Chloroethane	0.28L	J	AD	0.34L	J	AD	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	DE
Trichlorofluoromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U	J	E
1,1-Dichloroethene	26		GH	18		GH	140		H	0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50U			0.57			0.50U			0.50U			0.50U			0.50U		
Acetone	33	J	CD	27	J	CD	5.0U	J	BCD	2.3L	J	ACDE	5.0U	J	CDE	5.0U	J	CD	5.0U	J	CD
Carbon Disulfide	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Methyl Acetate	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D
Methylene Chloride	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.50U	J	D	0.19L	J	AD	0.16L	J	AD	0.23L	J	AD
trans-1,2-Dichloroethene	2.2			2.3			0.40L	J	A	0.50U			0.50U			0.50U			0.50U		
Methyl tert-Butyl Ether	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1-Dichloroethane	4.6			5.2			7.1			0.50U			0.50U			0.50U			0.50U		
cis-1,2-Dichloroethene	97		GH	70		GH	13			0.50U			0.50U			0.50U			0.50U		
2-Butanone	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C	5.0U	J	C
Bromochloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Chloroform	0.50U	J	B	0.50U			0.50U			0.50U	J	B	0.41L	J	A	0.26L	J	A	0.50U		
1,1,1-Trichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Cyclohexane	38		GH	14		GH	0.97			0.50U			0.50U			0.50U			0.50U		
Carbon Tetrachloride	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Benzene	0.74			0.80	J	F	0.15L	J	A	0.50U			0.50U			0.50U			0.50U		
1,2-Dichloroethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Trichloroethene	2.2	J	F	2.4	J	F	96		H	0.50U			0.50U			0.50U			0.50U		
Methylcyclohexane	100		GH	33		GH	0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichloropropane	4.7		G	0.50U		G	3.5			0.50U			0.50U			0.50U			0.50U		
Bromodichloromethane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
cis-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
4-Methyl-2-pentanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U			5.0U	J	E
Toluene	1.1	J	FG	1.7	J	FG	0.82U	J	B	0.17L	J	A	0.50U			0.50U			0.50U		
trans-1,3-Dichloropropene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2-Trichloroethane	0.50U			0.50U			0.58			0.50U			0.50U			0.50U			0.50U		
Tetrachloroethene	3.7	J	FG	2.5	J	FG	100		H	0.50U			0.50U			0.50U			0.50U		
2-Hexanone	5.0U			5.0U			5.0U			5.0U			5.0U			5.0U			5.0U		
Dibromochloromethane	0.50U	J	F	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromoethane	0.50U	J	F	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		

ANALYTICAL RESULTS
Revised Tier 3 Table 1A

Case No. : 31519 SDG No. : Y0SJ2
Site : CONTINENTAL HEAT TREATING
Lab : A4 SCIENTIFIC INC.
Reviewer : Santiago Lee, ESAT/LDC
Revision Date : July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	CHT-GW-1			CHT-GW-3			CHT-GW-2			CHT-GW-4			Method Blank			Method Blank			Method Blank		
Sample ID :	Y0SJ2		D1	Y0SJ3		D1	Y0SJ4			Y0SJ5		EB	VBLK4N			VBLK4P			VBLK4U		
Collection Date :	03/19/2003			03/19/2003			03/19/2003			03/19/2003											
Dilution Factor :	1.0			1.0			1.0			1.0			1.0			1.0			1.0		
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Ethylbenzene	14	J	F	11	J	F	0.50U			0.50U			0.50U			0.50U			0.50U		
Xylenes (total)	1.4	J	FG	2.1	J	FG	1.0			0.50U			0.50U			0.50U			0.50U		
Styrene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
Bromoform	0.50U	J	BF	0.50U			0.50U			0.50U	J	B	0.38L	J	A	0.30L	J	A	0.50U		
Isopropylbenzene	22	J	FG	15	J	FG	0.50U			0.50U			0.50U			0.50U			0.50U		
1,1,2,2-Tetrachloroethane	1.0		G	0.50U		G	0.50U			0.50U			0.50U			0.50U			0.50U		
1,3-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,4-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2-Dibromo-3-chloropropane	0.50U			0.50U			0.50U			0.50U			0.50U			0.50U			0.50U		
1,2,4-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.16L	J	A	0.19L	J	A	0.50U		
1,2,3-Trichlorobenzene	0.50U			0.50U			0.50U			0.50U			0.20L	J	A	0.23L	J	A	0.50U		

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample

ANALYTICAL RESULTS
Revised Tier 3 Table 1A

Case No. : 31519 SDG No. : Y0SJ2
Site : CONTINENTAL HEAT TREATING
Lab : A4 SCIENTIFIC INC.
Reviewer : Santiago Lee, ESAT/LDC
Revision Date : July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	Storage Blank			CRQL																
Sample ID :	VHBLK01																			
Collection Date :																				
Dilution Factor :	1.0																			
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Dichlorodifluoromethane	0.50U	J	E	0.50																
Chloromethane	0.20L	J	AE	0.50																
Vinyl Chloride	0.50U	J	E	0.50																
Bromomethane	0.50U			0.50																
Chloroethane	0.50U	J	DE	0.50																
Trichlorofluoromethane	0.50U	J	E	0.50																
1,1-Dichloroethene	0.50U			0.50																
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50U			0.50																
Acetone	5.0U	J	CD	5.0																
Carbon Disulfide	0.50U			0.50																
Methyl Acetate	0.50U	J	D	0.50																
Methylene Chloride	0.61U	J	BD	0.50																
trans-1,2-Dichloroethene	0.50U			0.50																
Methyl tert-Butyl Ether	0.50U			0.50																
1,1-Dichloroethane	0.50U			0.50																
cis-1,2-Dichloroethene	0.50U			0.50																
2-Butanone	5.0U	J	C	5.0																
Bromochloromethane	0.50U			0.50																
Chloroform	0.50U			0.50																
1,1,1-Trichloroethane	0.50U			0.50																
Cyclohexane	0.50U			0.50																
Carbon Tetrachloride	0.50U			0.50																
Benzene	0.50U			0.50																
1,2-Dichloroethane	0.50U			0.50																
Trichloroethene	0.50U			0.50																
Methylcyclohexane	0.50U			0.50																
1,2-Dichloropropane	0.50U			0.50																
Bromodichloromethane	0.50U			0.50																
cis-1,3-Dichloropropene	0.50U			0.50																
4-Methyl-2-pentanone	5.0U	J	E	5.0																
Toluene	0.50U			0.50																
trans-1,3-Dichloropropene	0.50U			0.50																
1,1,2-Trichloroethane	0.50U			0.50																
Tetrachloroethene	0.50U			0.50																
2-Hexanone	5.0U			5.0																
Dibromochloromethane	0.50U			0.50																
1,2-Dibromoethane	0.50U			0.50																

ANALYTICAL RESULTS
Revised Tier 3 Table 1A

Case No. : 31519 SDG No. : Y0SJ2
Site : CONTINENTAL HEAT TREATING
Lab : A4 SCIENTIFIC INC.
Reviewer : Santiago Lee, ESAT/LDC
Revision Date : July 23, 2003

QUALIFIED DATA
Concentration in ug/L

Analysis Type : Low Level Water Samples For Volatiles

Station Location :	Storage Blank			CRQL																
Sample ID :	VHBLK01																			
Collection Date :																				
Dilution Factor :	1.0																			
Volatile Compound	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com	Result	Val	Com
Chlorobenzene	0.50U			0.50																
Ethylbenzene	0.50U			0.50																
Xylenes (total)	0.50U			0.50																
Styrene	0.50U			0.50																
Bromoform	0.50U			0.50																
Isopropylbenzene	0.50U			0.50																
1,1,2,2-Tetrachloroethane	0.50U			0.50																
1,3-Dichlorobenzene	0.50U			0.50																
1,4-Dichlorobenzene	0.50U			0.50																
1,2-Dichlorobenzene	0.50U			0.50																
1,2-Dibromo-3-chloropropane	0.50U			0.50																
1,2,4-Trichlorobenzene	0.50U			0.50																
1,2,3-Trichlorobenzene	0.50U			0.50																

Val - Validity. Refer to Data Qualifiers in Table 1B.
Com - Comments. Refer to the Corresponding Section in the Narrative for each letter.
CRQL - Contract Required Quantitation Limit, N/A - Not Applicable, NA - Not Analyzed

D1, D2, etc. - Field Duplicate Pairs
FB - Field Blank, EB - Equipment Blank, TB - Trip Blank, BG - Background Sample